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PATENT



Preliminary Classification:

Practitioner's Docker

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand comer of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129.' " M.P.E.P. § 601, 7th ed.

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Box Patent Application Assistant Commissioner for Patents** Washington, D.C. 20231

### NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Jeff Schulz

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."

For (title):

REDUNDANCY IN A SWITCH

#### CERTIFICATION UNDER 37 C.F.R. § 1.10\*

RECEIVER DECODING ALGORITHM TO ALLOW HITLESS N+1

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date <u>June 30, 2000</u>, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EL396485947US dressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Tracey L. Milka

(type or print name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

\*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. § 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(New Application Transmittal [4-1]-page 1 of 11)

# 1. Type of Application

This new application is for a(n)

(check one applicable item below)

X	]	Original (nonprovisional)
	]	Design
		☐ Plant
WARNII	NG:	<b>Do not</b> use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. § 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.
WARNII	NG:	Do not use this transmittal for the filing of a provisional application.
NOTE:	TR	one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION IANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.
	]	Divisional.
	]	Continuation.
	]	Continuation-in-part (C-I-P).

## 2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. § 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
  - (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(l) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c). (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(New Application Transmittal [4-1]—page 2 of 11)

WARNIN	When the last described pendency of a provisional application falls on a Samuel, Sunday, or Federal holiday within the strict of Columbia, any nonprovisional application aiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).
	The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
3. Pape	rs Enclosed
(De	quired for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 esign) Application
F	Pages of specification
	Pages of claims
<u>15</u> s	sheets of drawing
WARNING	3: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. § 1.84, see Notice of March 9, 1988 (1990 O.G. 57-62).
in th oi	Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed in the back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top if the page " 37 C.F.R. § 1.84(c)).
	(complete the following, if applicable)
	The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. § 1.84(b).
	formal
	informal
B. Oth	er Papers Enclosed
2_ Pa	ages of declaration and power of attorney
1	ages of abstract
0	ther
4. Additi	onal papers enclosed
	Amendment to claims
	Cancel in this applications claims before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
	Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original claims.)
	Preliminary Amendment
	Information Disclosure Statement (37 C.F.R. § 1.98)
	Form PTO-1449 (PTO/SB/08A and 08B)
	Citations

5.

			f Logical Deposit	,
	perta amir	aining the no acid se	· ·	icleotide and/or
	Auth tive	orization	of Attomey(s) to Accept and Follow Instructions fr	om Representa-
	Spe	cial Comn	nents	
	Othe	er		
			(including power of attorney)	
	the prior by all or applicate the sign by a state being findeclarate person of execute	r nonprovision fewer than ion being file ature or an interment required. If the coion must be under § 1.4 d declaration	declaration is not required in a continuation or divisional application contained a declaration as required, the application the inventors named in the prior application, there is not led, and a copy of the executed declaration filed in the prior indication thereon that it was signed) is submitted. The copy muesting deletion of the names of person(s) who are not inventor declaration in the prior application was filed under § 1.47, filed accompanied by a copy of the decision granting § 1.47 stated that it is subsequently joined in a prior application, then a copy of must be filed. See 37 C.F.R. §§ 1.63(d)(1)–(3).	cation being lifed is onew matter in the application (showing just be accompanied ors of the application then a copy of that tus or, if a nonsigning of the subsequently
NOTE:	is direct abbrevia country C.F.R. §	ed, identify e ation togethe or citizensh § 1.63(a)(1)—		e given name, without st office address and or joint inventor. 37
NOTE:	as presonas presonas presonas that in this par	cribed by § cribed by § inventorship s agraph acco	f a nonprovisional application is that inventorship set forth in th 1.62, except as provided for in § 1.53(d)(4) and § 1.63(d). If a 1.63 is not filed during the pendency of a nonprovisional applica set forth in the application papers filed pursuant to § 1.53(b), un companied by the fee set forth in § 1.17(i) is filed supplying of ventor or inventors." 37 C.F.R. § 1.41(a)(1).	n oath or declaration ition, the inventorship nless a petition under
$\bar{\mathbf{x}}$	] Enc	losed		
	Exe	cuted by		
			(check all applicable boxes)	
	X	inventor(	•	
		37 C.F.R	oresentative of inventor(s). R. §§ 1.42 or 1.43.	
		interest of cannot	entor or person showing a proprietary on behalf of inventor who refused to sign of the reached.	
			This is the petition required by 37 C.F.R. § 1.47 a required by 37 C.F.R. § 1.47 is also attached. So for fee.	nd the statement se item 13 below
С	_	Enclosed		
NOTE:	the U.S	S. application treated as	a completion in the U.S. of an International Application or who in contains subject matter in addition to the International Applic a continuation or continuation-in-part, as the case may be, u ATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APP	cation, the application tilizing ADDED PAGE
		Application behalf of	ion is made by a person authorized under 37 C. f all the above named inventor(s).	F.R. § 1.41(c) on
			(New Application Transmittal	[4-1]—page 4 of 11)

(The decla	ration or oat along with the surcharge required by 37 c.F.R. § 1.16(e) can be filed subsequently).
	☐ Showing that the filing is authorized.  (not required unless called into question. 37 C.F.R. § 1.41(d))
6. Inventors	hip Statement
01	the named inventors are each not the inventors of all the claims an explanation, including the wnership of the various claims at the time the last claimed invention was made, should be abmitted.
The invento	rship for all the claims in this application are:
. 🔼 The	e same.
	or
☐ Not the	t the same. An explanation, including the ownership of the various claims at time the last claimed invention was made,
. 🗆	is submitted.
	will be submitted.
7. Language	
An Eng require	dication including a signed oath or declaration may be filed in a language other than English. It is a language other than English translation of the non-English language application and the processing fee of \$130.00 d by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within such time as may by the Office. 37 C.F.R. § 1.52(d).
🗵 Eng	plish
☐ Nor	n-English
	The attached translation includes a statement that the translation is accurate. 37 C.F.R. § 1.52(d).
8. Assignme	nt
🖾. An	assignment of the invention to FORE Systems, Inc.
<u></u>	is attached. A separate ⚠ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☐ FORM PTO 1595 is also attached.
	will follow.
NOTE: "If an as	ssignment is submitted with a new application, send two separate letters-one for the application

and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).

WARNING: A newly executed "CERTIFICATE UNDER 37 C.F.R. § 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

(New Application Transmittal [4-1]—page 5 of 11)

d	Copy	

## 9. Certified Copy

Certified copy(ies) of application(s)

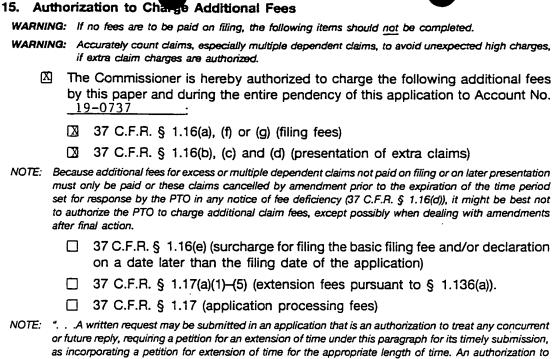
		······································	
Country	Appln. No.		Filed
Country	Appln. No.		Filed
Country	Appln. No.		Filed
from which priority is claimed			
☐ is (are) attached.			
☐ will follow.		•	
NOTE: The foreign application for declaration. 37 C.F.R. § 1	ming the basis for the claim .55(a) and 1.63.	for priority must b	e referred to in the oath or
U.S. application or Internal	n priority for which the applicational Application from which to riority from a prior foreign applicaTION TRANSMITTAL WHEF	this application cla lication, then com	aims benefit under 35 U.S.C. plete item 18 on the ADDED
A. 🗵 Regular application			
	CLAIMS AS FILEI	)	
Number filed	Number Extra	Rate	Basic Fee 37 C.F.R. § 1.16(a) \$690.00
Total Claims (37 C.F.R. § 1.16(c)) 16 -	20 = 0 ×	\$ 18.00	0.00
Independent Claims (37 C.F.R.	3 = 0 ×	\$ 78.00	0.00
Multiple dependent claim(s), if any (37 C.F.R. § 1.16(d))	+	- \$260.00	
☐ Amendment cance	elling extra claims is end	closed.	
☐ Amendment deleti	ng multiple-dependenci	es is enclosed	<b>I.</b>
☐ Fee for extra clain	ns is not being paid at	this time.	
NOTE: If the fees for extra claims a prior to the expiration of to notice of fee deficiency. 3	the time period set for respon	be paid or the clai se by the Patent	ms cancelled by amendment, and Trademark Office in any
	Filing Fee Calculation		\$ 690.00
B. Design application (\$310.00—37 C.F.			
•	Filing Fee Calculation		\$

(New Application Transmittal [4-1]—page 6 of 11)

C.		Plant application		
		(\$480.00—37 C.F	.R. § 1.16(g))	
			Filing fee calculation	\$
11.	Sma	I Entity Statemen	t(s)	
		Statement(s) that is (are) attached.	this is a filing by a small	entity under 37 C.F.R. § 1.9 and 1.27
WAF	RNING	the status is available affect any other application of an application a continued prosecution application. A nonpapplication or in the reference to the statement in the payment affect and systems.	e and desired. Status as a smolication or patent, including upon the application or patent ion under § 1.53 as a continuation application under § 1.53(c) as to continued entitlement to ovisional application claiming lolication, or a reissue application patent if the nonprovisional application application or in the patent or application or in the patent	ablished in each application or patent in which all entity in one application or patent does not applications or patents which are directly of a time which the status has been established. The ation, division, or continuation-in-part (including all), or the filing of a reissue application requires small entity status for the continuing or reissue benefit under 35 U.S.C. § 119(e), 120, 121, or tion may rely on a statement filed in the prior opplication or the reissue application includes a continuity or in the patent or includes a copy of the and status as a small entity is still proper and story filing fee will be treated as such a reference 2).
WAF	NING	: "Small entity status n	nust not be established when the nake the required self-certifica	ne person or persons signing the statement ation." M.P.E.P., § 509.03, 6th ed., rev. 2, July
		(co	mplete the following, if	applicable)
		Status as a small	entity was claimed in p	rior application
		/	, filed on	, from which benefit
		is being claimed f	or this application under	r.
		35 U.S.C. § □	* *	
			120, 121,	
			365(c),	
			s as a small entity is stil	Il proper and desired.
			·	application is included.
			culation (50% of A, B or	
		,	\$	·
ΝΟΤΙ	are		paid will be refunded if small er of the date of timely paymen	ntitiy status is established and a refund request nt of a full fee. The two-month period is not
12. F	Requ	est for internation	nal-Type Search (37 C.	F.R. § 1.104(d))
			(complete, if applica	ble)
			international-type search mination on the merits t	report for this application at the time takes place.

13. Fe	e Payr	ment Beil ande at This Time			
	] Not	Enclosed			
		No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. § subsequently.)	1.16(e)	can be p	aid
Œ	] Enc	elosed			
	X	Filing fee	\$	690.00	
	Ⅸ	Recording assignment (\$40.00; 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)	\$	40.00	
		Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i))	\$		
		For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))	\$		
		Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l))	\$		
		Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$		
NOTE:	failing t 37 C.F. either t	R. § 1.21(I) establishes a fee for processing and retaining any appli o complete the application pursuant to 37 C.F.R. § 1.53(f) and thi R. §§ 1.53 and 1.78(a)(1), indicate that in order to obtain the benef he basic filing fee must be paid, or the processing and retention for I year from notification under § 53(f).	s, as well a fit of a prior	s the change U.S. applica	es to ition,
		Total fees enclosed	\$	730.00	
14. Me		of Payment of Fees			
		eck in the amount of \$_690.00 & 40.00			
		arge Account No	in the	amount	of
	A d	uplicate of this transmittal is attached.			
NOTE:	Fees sh § 1.22(	rould be itemized in such a manner that it is clear for which purpose b).	the fees a	re paid. 37 C.	.F.R.

(New Application Transmittal [4-1]—page 8 of 11)



as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).

☐ 37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. § 1.311(b).

NOTE: 37 C.F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . . the issue fee. . . " From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

(New Application Transmittal [4-1]—page 9 of 11)



NOTE: ". . . Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).

X	Credit Account No	o. <u>19-0737</u>
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☐ Refund

Reg. No. 30,587

Tel. No. (412) 621-9222

Customer No.

SIGNATURE OF PRACTITIONER

Ansel M. Schwartz

(type or print name of attorney) One Sterling Plaza

201 N. Craig Street,

P.O. Address

Pittsburgh, PA 15213

(New Application Transmittal [4-1]—page 10 of 11)

M	Incor	poration by religince of added pages
	pi st	theck the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. tage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF RIOR U.S. APPLICATION(S) CLAIMED)
		Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed
		Number of pages added
		Plus Added Pages for Papers Referred to in Item 4 Above
		Number of pages added
		Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.
	_	Number of pages added
	X	Plus "Assignment Cover Letter Accompanying New Application"  Number of pages added4
	State	ment Where No Further Pages Added
	•	no further pages form a part of this Transmittal, then end this Transmittal with is page and check the following item)
		This transmittal ends with this page.